http://www.tutorialspoint.com/java/util/java_util_hashset.htm

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Introduction

The **java.util.HashSet** class implements the Set interface, backed by a hash table. Following are the important points about HashSet:

- This class makes no guarantees as to the iteration order of the set; in particular, it does not guarantee that the order will remain constant over time.
- This class permits the null element.

Class declaration

Following is the declaration for java.util.HashSet class:

```
public class HashSet<E>
   extends AbstractSet<E>
   implements Set<E>, Cloneable, Serializable
```

Parameters

Following is the parameter for java.util.HashSet class:

• E -- This is the type of elements maintained by this set.

Class constructors

S.N.	Constructor & Description
1	HashSet() This constructs a new, empty set; the backing HashMap instance has default initial capacity (16) and load factor (0.75).
2	HashSet(Collection extends E c) This constructs a new set containing the elements in the specified collection.
3	HashSet(int initialCapacity) This constructs a new, empty set; the backing HashMap instance has the specified initial capacity and default load factor (0.75).
4	HashSet(int initialCapacity, float loadFactor) This constructs a new, empty set; the backing HashMap instance has the specified initial capacity and the specified load factor.

Class methods

S.N.	Method & Description

1	boolean add(E e) This method adds the specified element to this set if it is not already present.
2	void clear() This method removes all of the elements from this set.
3	Object clone() This method returns a shallow copy of this HashSet instance, the elements themselves are not cloned.
4	boolean contains(Object o) This method returns true if this set contains the specified element.
5	boolean isEmpty() This method returns true if this set contains no elements.
6	Iterator <e> iterator() This method returns an iterator over the elements in this set.</e>
7	boolean remove(Object o) This method removes the specified element from this set if it is present.
8	int size() This method returns returns the number of elements in this set(its cardinality).

Methods inherited

This class inherits methods from the following classes:

- java.util.AbstractSet
- java.util.AbstractCollection
- java.util.Object
- java.util.Set